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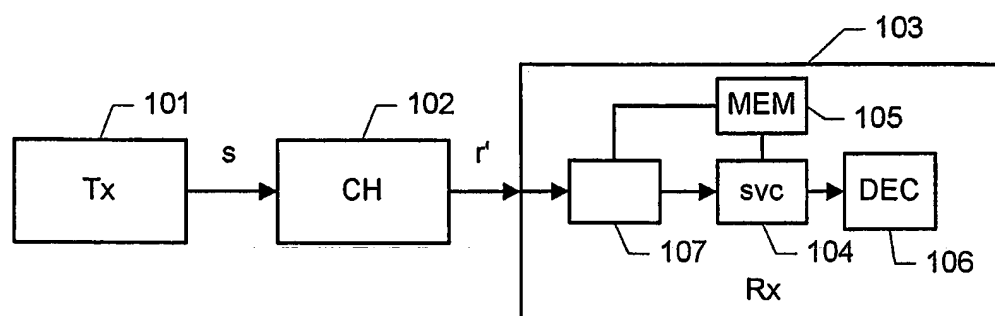


Fig. 1a

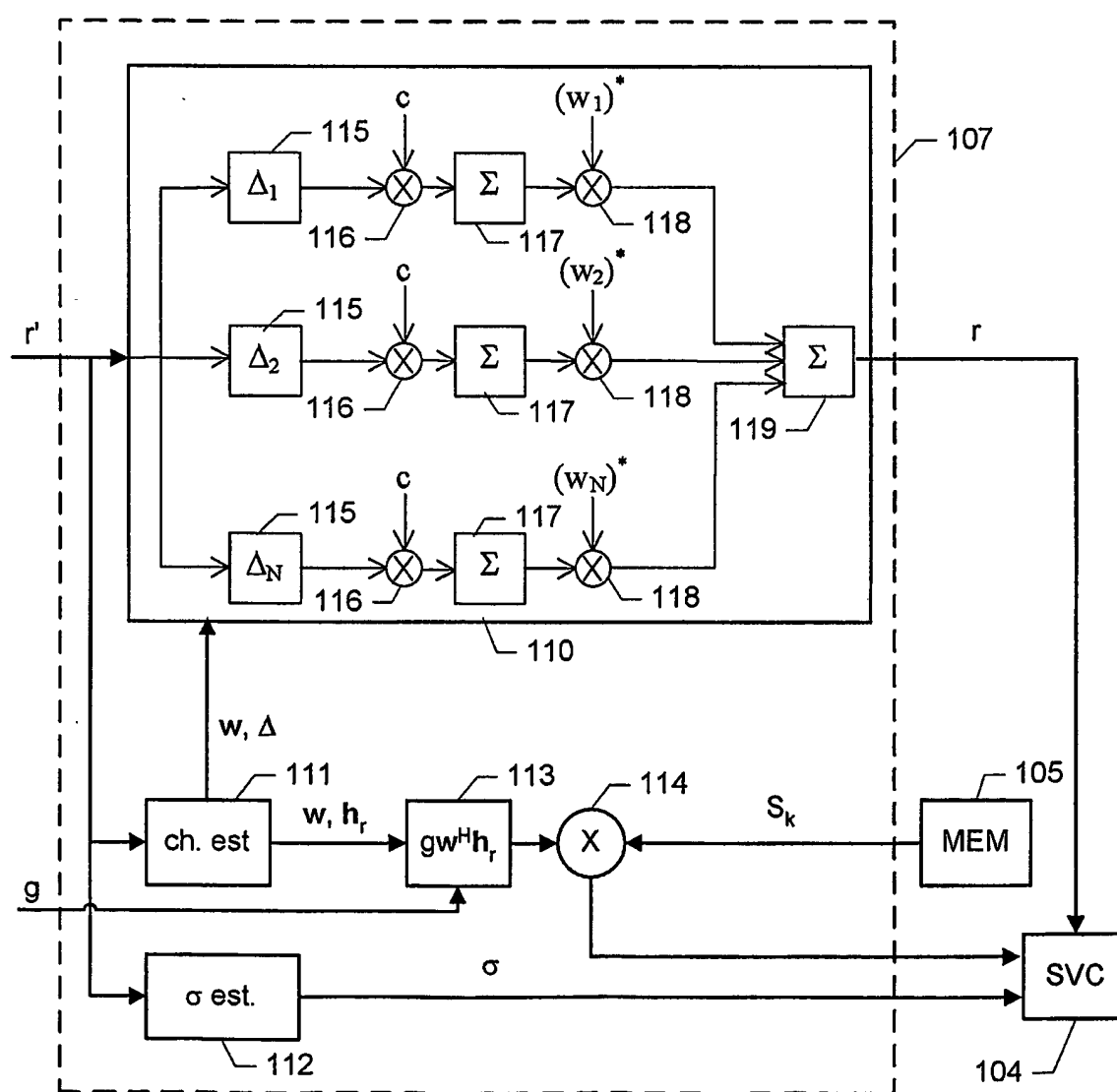


Fig. 1b

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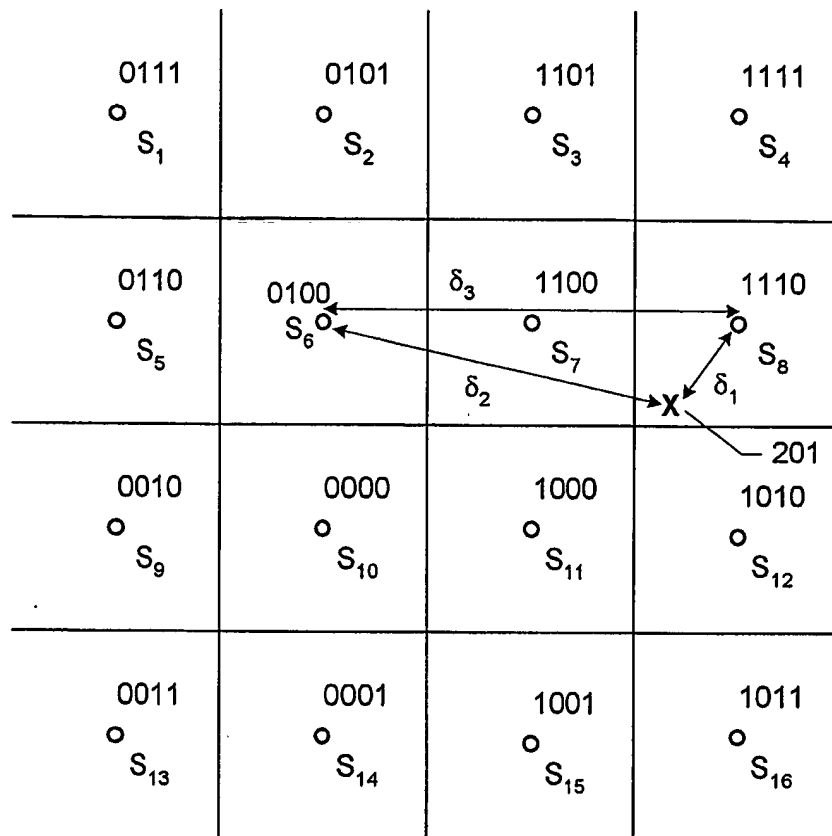


Fig. 2

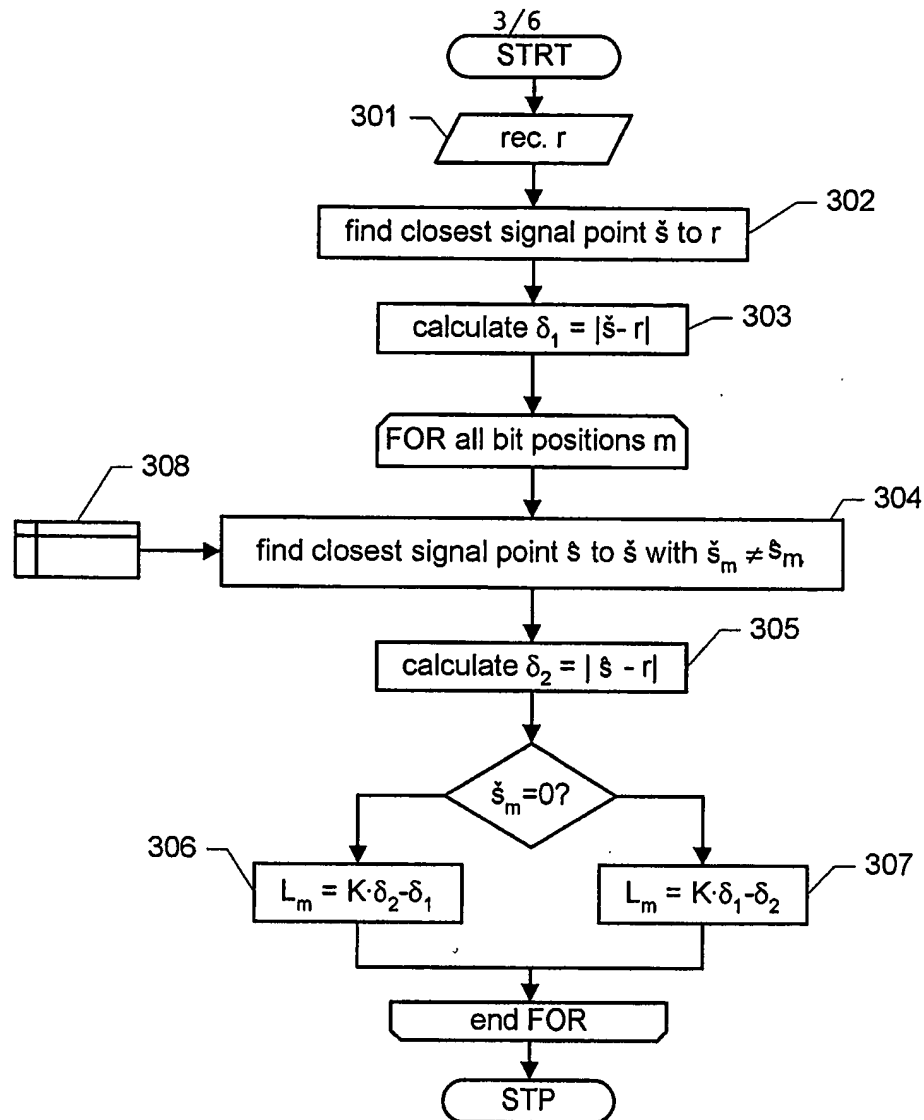


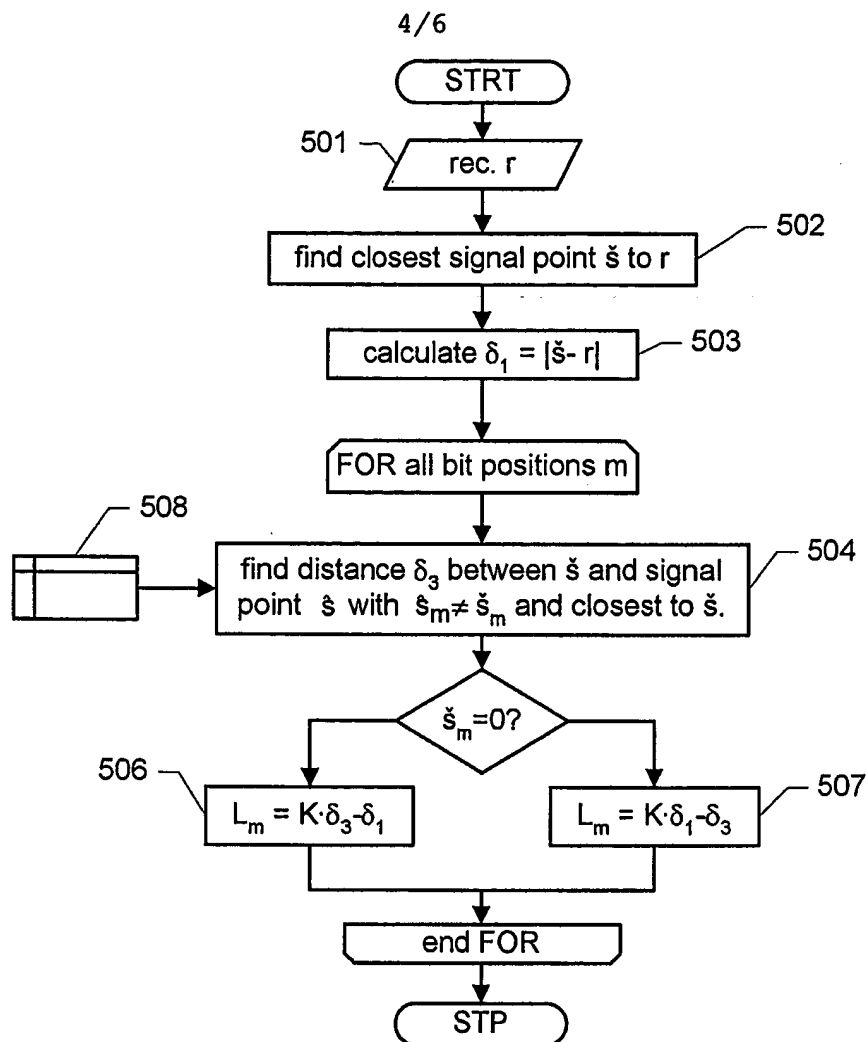
Fig. 3

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	m = 1	m = 2	...	m = log ₂ (M)
$\check{s} = S_1$	$\hat{s} = S_3$	$\hat{s} = S_9$...	$\hat{s} = S_5$
$\check{s} = S_2$	$\hat{s} = S_3$	$\hat{s} = S_{10}$...	$\hat{s} = S_6$
\vdots	\vdots	\vdots	\ddots	\vdots
$\check{s} = S_M$	$\hat{s} = S_{14}$	$\hat{s} = S_8$...	$\hat{s} = S_{12}$

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Fig. 4



	m = 1	m = 2	...	m = log ₂ (M)	508
S ₁	d _{1,1}	d _{1,2}	...	d _{1,log(M)}	
S ₂	d _{2,1}	d _{2,2}	...	d _{2,log(M)}	
⋮	⋮	⋮	⋮	⋮	
S _M	d _{M,1}	d _{M,2}	...	d _{M,log(M)}	

Fig. 6

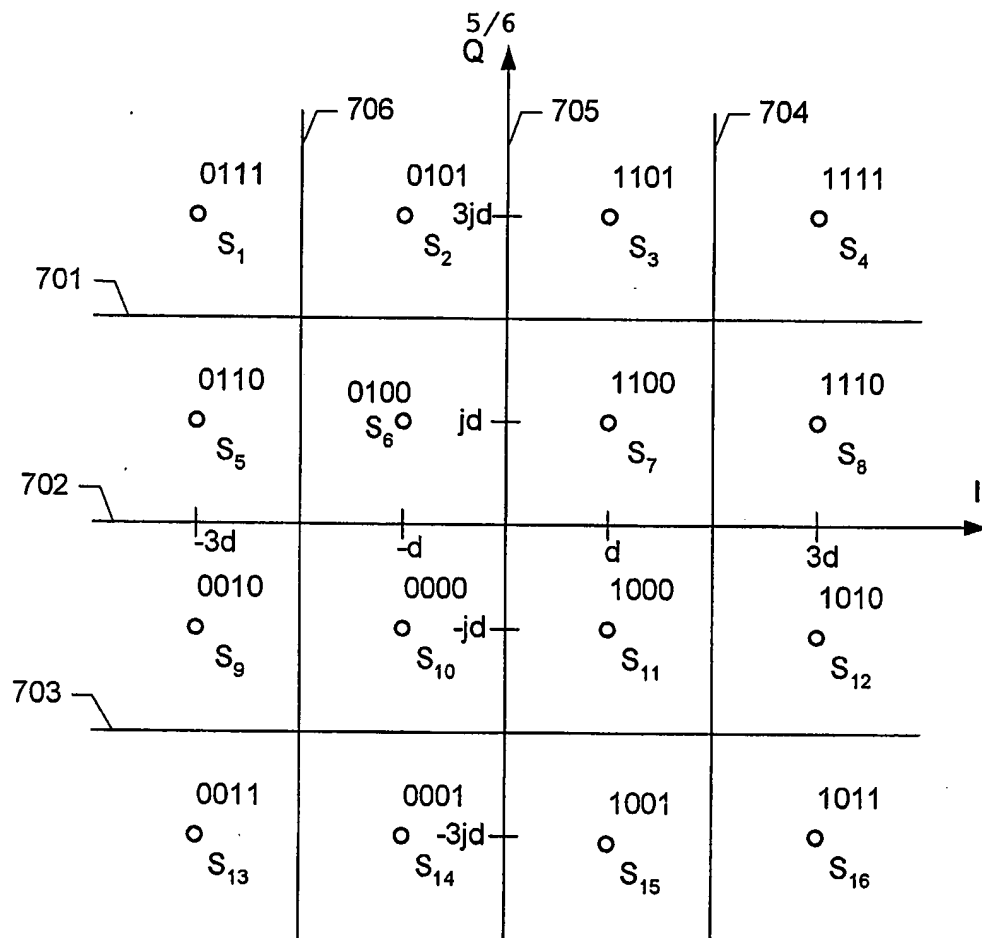


Fig. 7

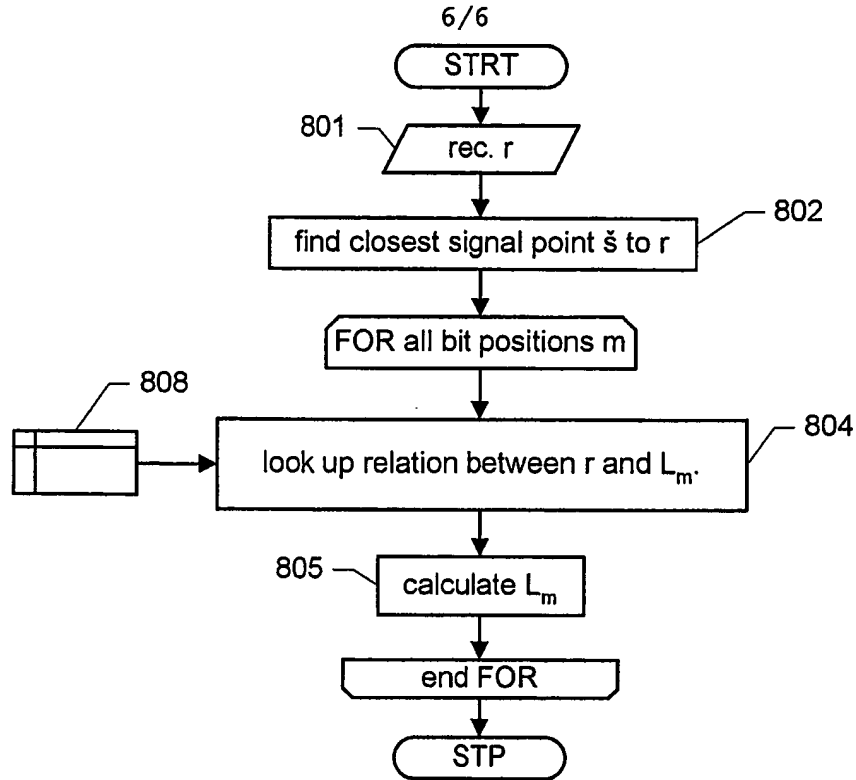


Fig. 8

Decision region	L_1	L_2	L_3	L_4
S_1	$4K \cdot (2ad - 2d^2)$	$4K \cdot (-2bd + 2d^2)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_2	$4K \cdot (ad)$	$4K \cdot (-2bd + 2d^2)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_3	$4K \cdot (-ad)$	$4K \cdot (-2bd + 2d^2)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_4	$4K \cdot (-2ad + 2d^2)$	$4K \cdot (-2bd + 2d^2)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_5	$4K \cdot (2ad - 2d^2)$	$4K \cdot (-bd)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_6	$4K \cdot (ad)$	$4K \cdot (-bd)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_7	$4K \cdot (-ad)$	$4K \cdot (-bd)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_8	$4K \cdot (-2ad + 2d^2)$	$4K \cdot (-bd)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_9	$4K \cdot (2ad - 2d^2)$	$4K \cdot (-bd)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_{10}	$4K \cdot (ad)$	$4K \cdot (-bd)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_{11}	$4K \cdot (-ad)$	$4K \cdot (-bd)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_{12}	$4K \cdot (-2ad + 2d^2)$	$4K \cdot (-bd)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_{13}	$4K \cdot (2ad - 2d^2)$	$4K \cdot (2bd - 2d^2)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_{14}	$4K \cdot (ad)$	$4K \cdot (2bd - 2d^2)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_{15}	$4K \cdot (-ad)$	$4K \cdot (2bd - 2d^2)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$
S_{16}	$4K \cdot (-2ad + 2d^2)$	$4K \cdot (2bd - 2d^2)$	$4K \cdot (ad - 2d^2)$	$4K \cdot (bd - 2d^2)$

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Fig. 9